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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/677,075	09/29/2000	Gregory J. Kostrzewsky	99RE055	2141
75	90 09/17/2002			
John J. Horn			EXAMINER	
Allen-Bradley Company, L.L.C. Patent Dept./704p, Floor 8 T-29			JOYCE, WILLIAM C	
1201 South Second Street Milwaukee, WI 53204-2496			ART UNIT	PAPER NUMBER
Willwattee, W1 33204 2470			3682	

DATE MAILED: 09/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Digital Properties Digital Properties	· ·		<u> </u>					
## Examiner William C. Joyce 3882 **The MAILING DATE of this communication appears on the cover sheet with the correspondence address **Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE of this communication of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is evaluable under the spreadous of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is evaluable under the spreadous of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is evaluable under the spreadous of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is evaluable under the spreadous of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is evaluable under the spreadous of 3.7 CFR 1.03(e), in one event, however, may a reply be timely filled **If the period for reply is expected above, the meatings of a statutory period will apply and will expect \$10(e) Monthly filled **If the period for reply is expected above, the meatings date of this communication of the meating date of this communication or the period of the		Application No.	Applicant(s)					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the prostinces of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of the prostinces of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). In ne event, however, may a reply be limited (filled and the prostinces) of 31 CFR 1.135(a). It is the prostinces of 31 CFR 1.135(a). It is necessary and the prostinces of 31 CFR 1.135(a). In necessary and supplied the supplied of this communication, even if timely filled in the continuous and supplied of this communication, even if timely filled in the prostince and supplied of this communication, even if timely filled in the prostince and supplied of the continuous and supplied of this communication, even if timely filled in the prostince and supplied of the continuous and supplied of the supplied of the continuous and supplied of the supplied of	The MAN INC DATE of this communication com	· · · · · · · · · · · · · · · · · · ·						
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are epected. 7) Claim(s) are subject to the extinction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
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DETAILED ACTION

This Office Action is in response to the amendment filed May 28, 2002 for the above identified patent application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 6-15, 17, 19, 20, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable Holzman (US Patent 4,872,502) in view of Olah (US Patent 2,511,479).

Holzman discloses a gearbox comprising a conductive housing (10,11,23,24), a bearing element disposed within the housing, at least one fan (43,44) mounted to the bearing housing, wherein the fan is adapted to transfer heat from the bearing housing by forced convection. Referring to column 5, lines 14+, Holzman discloses that the fan may be thermostatically controlled by an adjustable temperature sensor submerged in the lubricant oil sump of the gear drive housing. As illustrated in Figure 5, the fan is controlled by a logic controller having predetermined limits for controlling the operation of the fan.



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Holzman discloses the gearbox having an oil sump to house lubricant (column 4, lines 28-33) but does not clearly teach the oil from the sump being used to lubricate the bearings. However, it was notoriously well known in the art for a gearbox to use oil from a sump to lubricate the bearings. For example, Olah teaches a gear reduction device having cooling means for cooling lubricant disposed in an oil sump (33), wherein the lubricant is supplied to the bearings of the gearbox. It would have been obvious to one of ordinary skill in the art at the time the invention was made to configure the gearbox of Holzman such that the lubricant from the oil sump is supplied to the bearings, as taught by Olah, in order to lubricate and cool the bearings.

With respect to claim 3, Holzman does not disclose the gearbox having cooling fins for increasing the cooling efficiency of the device, but it was notoriously known in the art to provide a gearbox housing with fins as claimed. For example, the prior art to Olah teaches providing a gearbox with cooling fins. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the gearbox housing of Holzman with cooling fins, as taught by Olah, in order to increase the cooling efficiency of the device.

With respect to claim 6, Holzman discloses the temperature sensor being submerged in the oil sump.

With respect to claims 11-15 and 22, Holzman does not disclose the gear reduction housing having a pair of fans for transferring heat from the housing. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide two fans on the housing, since it has been held that mere duplication of the



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essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. Further, it would have been obvious to an engineer in the art at the time the invention was made modify the device of Holzman by providing a second fan on the housing and a second adjustable control circuit to control the fan operation, in order to increase the heat transfer from the housing.

3. Claims 5, 18, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holzman (US Patent 4,872,502) and Olah (US Patent 2,511,479) as applied to claims 4 and 17 above, and further in view of Woodroffe et al. (US Patent 6,425,293).

Holzman does not disclose the temperature sensor configured to measure a temperature of the bearing, but the prior art to Woodroffe et al. teaches monitoring the temperature of bearings in a gearbox with a sensor to prevent failure of the device due to overheating. Referring to the specification, Woodroffe et al. discloses "The temperature of a bearing, for example, can also be monitored to detect the occurrence of over-heating" (column 1, lines 49+), "the temperature sensor 164 may be used to sense temperature indicative of gear overheating or bearing overheating" (column 7, lines 55+), and "examples of gearbox cooling include... operating a cooling fan to provide air cooling over the gearbox" (column 23, lines 5+). It would have been obvious to one of ordinary skill in the art at the time the invention was made to position the temperature sensor of Holzman such that it measures a temperature of the bearing, as taught by Woodroffe et al., in order to prevent overheating of the bearing.



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4. Claims 5, 18, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holzman (US Patent 4,872,502) and Olah (US Patent 2,511,479) as applied to claims 4 and 17 above, and further in view of Roberts (US Patent 3,548,396).

Holzman does not show the temperature sensor disposed adjacent the bearing element, however monitoring the temperature of a bearing element was known in the art. For example, the prior art of Roberts discloses a temperature sensing device positioned adjacent a bearing element for monitoring a bearing from overheating. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an additional temperature sensor to the gear device of Holzman, positioned adjacent the bearing, as taught by Roberts, in order to ensure the bearing does not overheat during operation.

5. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holzman (US Patent 4,872,502) and Olah (US Patent 2,511,479) as applied to claim 8 above, and further in view of Muller (US Patent 4,806,832).

Holzman does not disclose the fan as being configured to operate at variable speeds depending on the output of the temperature sensor, but it was well known in the art to operate a fan at different speeds depending on the cooling requirements of a device. For example, Muller discloses a fan having a control circuit for varying its rotation speed based on a temperature sensor. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the control circuit of



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Holzman such that the fan has multiple operating speeds, as taught by Muller, in order to provide adequate cooling of the housing without consuming excessive electricity.

6. Claims 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holzman (US Patent 4,872,502) and Woodroffe et al. (US Patent 6,425,293).

The prior art to Holzman, as described above, does not disclose means for discerning a temperature of a bearing element, but the prior art to Woodroffe et al. teaches monitoring the temperature of bearings in a gearbox with a sensor to prevent failure of the device due to overheating. It would have been obvious to one of ordinary skill in the art at the time the invention was made to position the temperature sensor of Holzman such that it measures a temperature of the bearing, as taught by Woodroffe et al., in order to prevent overheating of the bearing.

Holzman does not disclose providing a fan and a temperature sensor at each of the bearings of the gearbox. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a fan and a temperature sensor for each bearing, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

Response to Arguments

7. Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (703) 305-5114. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

September 12, 2002